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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
INFORMATION DISCLOSURE STATEMENT

Applicants: James R. Charlton et al.

For: GRAPHIC DISPLAY OF NETWORK PERFORMANCE INFORMATION

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Commissioner for Patents
Washington, D. C. 20231

Sir:

Applicants are aware of the following references listed on
the attached PTO-1449, copies of which are enclosed:

U. S. Patents

Kind Code

<u>Patent No.</u>	<u>(If Known)</u>	<u>Inventor</u>	<u>Issue Date</u>
5,581,797	A	M. J. Baker et al.	Dec. 03, 1996

Other Documents

Visual Information Management for Network Configuration;
Harsha Kumar et al.; June, 1994.

Treemaps for Space-Constrained Visualization of Hierarchies;
Ben Shneiderman; December 26, 1998 (updated November 8, 2000).

Website: <http://www.smartmoney.com/marketmap>; Dow Jones & Company, Inc. and Hearst Communications, Inc.; as early as November, 2000.

The Kumar et al. paper was prepared in cooperation with Hughes Network Systems and proposed the use of treemap display techniques as a front end for software to store and update configuration parameters of ports in a communication network. The Kumar et al. paper is accessible at:
<ftp://ftp.cs.umd.edu/pub/hcil/Reports-Abstracts-Bibliography/3288html/3288.html> .

The Shneiderman paper is a report on general usage of treemap techniques for representation and visualization of hierarchically organized information structures. The paper was prepared for the Human-Computer Interaction Lab (HCIL) of the University of Maryland and is accessible at:
<http://www.cs.umd.edu/hcil/treemaps/> .

The Smartmoney website (<http://www.smartmoney.com/marketmap>) uses treemap techniques to graphically depict stock market data. Size of rectangles relates to volume of trades of a company, while color indicates direction of share price trend: green for increasing price, red for decreasing price. Placing a mouse cursor on a block opens a "balloon" which identifies a company and shows current stock information. Clicking on a block links

the user to a more detailed summary of the company's stock performance, etc.

Respectfully submitted,

8/3/01
Date

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